

# AirTek

Dehumidifiers  
AT90/AT120 User Manual

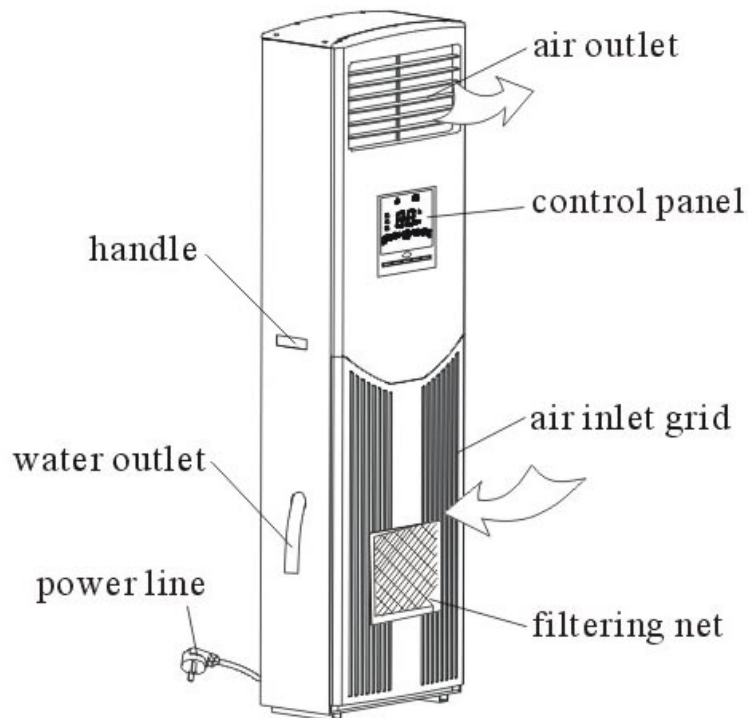
## 1. Important safety instruction

★ Do not turn on/off the unit constantly by pulling out/inserting in the plug. It may cause outlet damage or electric shock or fire.	★ Do not operate the unit with wet hands. It may cause electric shock or damaging the unit.
★ Do not put spray canister near air outlet (within 1M) since the warm wind could cause the spray canister explode.	★ Do not put a pet or house plant where will be exposed to direct air flow. This could injure the pet or plant.
★ The plug should be inserted completely. Remove dirt from the power plug and securely insert into the outlet. If dirt adheres to the plug or insertion is incomplete, it may cause a fire or electric shock.	★ Do not clean the unit directly with water It may cause an electric shock and other troubles.
★ Do not install the unit by yourself. Incorrect install may cause leakage, electric shock or a fire. It should be installed by your dealer or similar qualified person.	★ Do not put anything on the unit or do not step on it. It may cause an injury through dropping and falling down.
★ Do not install the unit where flammable gas could leak. If gas leaks and collects around the unit, it may cause an explosion and a fire.	★ Do not pull the power cord. Hold the power plug to disconnect it. The core wire of the power cord may be disconnected and it may cause a fire.
★ When the unit needs to be cleared, switch off or turn off the breaker, since the fan rotate at high speed may cause injury.	★ Do not put any electric appliances under the unit. The dropping water may cause eroding or some trouble or electric shock.
★ When the unit is not going to used for a long time, disconnect the power plug or turn off the breaker.	★ When an abnormality (smell of burning) occurs, stop the unit and disconnect the power plug or turn off the breaker. Since it may cause trouble or electric shock or a fire, etc. Please consult your dealer or technique service center.
★ Apply grounding Do not connect a grounding wire to a gas pipe, water pipe, lightning rod or ground wire of a telephone. If a grounding is incorrect, it may cause and electric shock.	★ Do not move the unit by yourself. If the installation is incorrect, it may cause some trouble or water escaping or electric shock or a fire. Please consult your dealer or technique service center.
★ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.	★ Do not repair the unit by yourself. if this is done incorrectly, it may cause a fire or electric shock. Please consult your dealer or technique service center.
★ The appliance shall be installed in accordance with national wiring regulation.	★

## 2. Product introduction

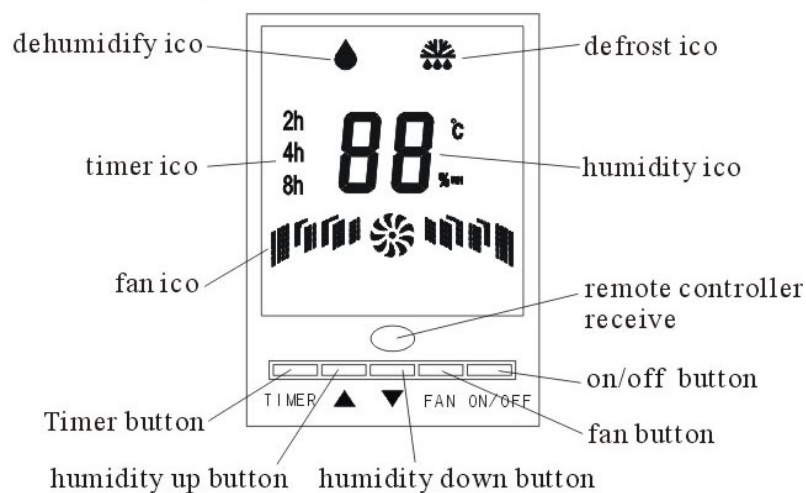
*AirTek Dehumidifiers* are capable of solving a wide variety of moisture problems. These workhorses can be placed in indoor swimming pool/spa areas, locker or laundry rooms, harsh marine environments or industrial environments where moisture control is required. Quiet operation, digital display, auto defrost, charming appearance and a design which allows you to place it right next to a wall and you have a dehumidifier that stands out amongst its peers.

### Introduction of configuration



## 3. Operation instruction

### A. Control panel operation instruction



### 1. Start on

- (1) Plug on, the unit gives off a sound like “di”. The “humidity ico” shows the current humidity.
- (2) Press ‘On/Off’ Both the ‘Dehumidify Ico’ and ‘Humidity Ico’ lights on, the ‘Humidity Ico’ display the previous set humidity, the initial setting humidity is 60% and 3 seconds later the ‘Humidity Ico’ display current humidity.
- (3) Press humidity up or down button to adjust the humidity if needed .If the setting humidity is 3% less than current humidity, the unit runs; if the set humidity is 3%more than current humidity, the unit stops running.

### 2. Shut off

Press ‘ON/OFF’ when the unit is running, all the indicators turn off but the “Humidity Ico” shows the current humidity, the unit stop running.

### 3. Humidity accommodate

- (1) Press the humidity up or humidity down button with the ‘Humidity Ico’ blinking.3 seconds after the humidity has been adjusted, the ‘Humidity Ico’ lights on. The humidity accommodate is range from 30%to 90%, and it should begin in 60%.
- (2) Press the humidity up or down button, the humidity will be rise or drop by 1%; keep pressing the keys, to rising or dropping the humidity by 5%.
- (3) Press humidity down button when the accommodated humidity is on 30%, to make it in dehumidify mode, the ‘Humidity Ico’ will show the current humidity after 3 seconds since the ‘Humidity Ico’ shows “CO”.

### 4. Wind-speed control

High speed mode and low speed mode can be switched in circulation by press the “fan button” each time. Pretermission is the high-speed mode.

### 5. Time accommodate

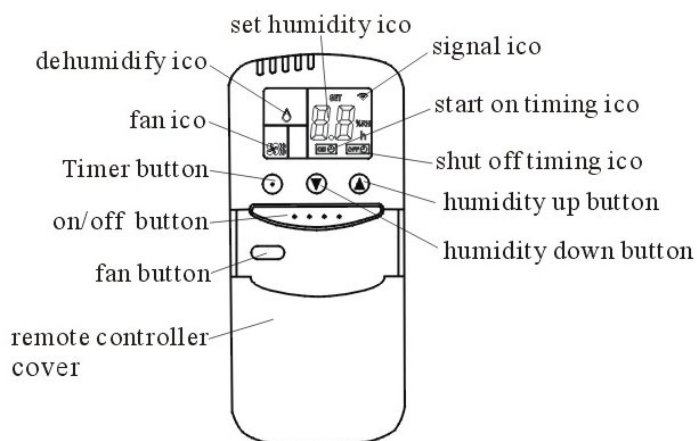
Press the “timer button” to set the time to shut off with the unit running. Press the same button to set the time to start on. There are three icos marked with “2h”.”4h” and”8h”on them, the time will be add 2hours by press the “timer button” each time, it can be range from 2 hours to 14 hours which means the three ico all light on. Press the “timer button” when the time has been set on 14 hours to cancel timing. Press the “ON/OFF” button when the timing system has started to cancel timing.

The unit will stop working on the time had been set to shut off,” timer ico” lights off. The unit will start working under previous mode on the time had been set with the “timer ico” lights off. Time indicators measuring (1means light on 0 means light off)

<b>2h ico</b>	1	0	1	0	1	0	1	0
<b>4h ico</b>	0	1	1	0	0	1	1	0
<b>8h ico</b>	0	0	0	1	1	1	1	0
<b>Time(hours)</b>	2	4	6	8	10	12	14	None

6. Press the button both humidity up and down, the “humidity ico” shows the current humidity 3 seconds later.

## B. Remote controller Instruction



Press any key of the remote controller with the “signal ico” bright to send a signal, the unit gives off a sound like “di” to receive the signal.

### 1. Start on

(1). Press “ON/OFF”, the “dehumidify ico” “humidity ico” and “set humidity ico” lights on, display the previous set humidity. The initial setting humidity is 60%.

### 2. Shut off

Press “ON/OFF”, when the unit is running; when all the indicators turn off, the unit stops running.

### 3. Humidity accommodate

(1) Humidity can be set range from 30% to 90%, the first time should be 60%.

(2) Press the humidity up or down, the humidity will be rise or drop by 1%; keep pressing the keys, to rising or dropping the humidity by 5%.

(3) Press humidity down key when the accommodated humidity is on 30%, to make it in dehumidify mode, the “humidity ico” shows “CO”.

### 4. Wind-speed accommodate

High speed mode and low speed mode can be switched in circulation by press the “fan button” each time. Pretermismission is the high-speed mode.

### 5. Time accommodate

(1) Set time to shut off. Press the “timer button” to set the time to shut off with the unit running. Press the button, “shut off timing ico” lights on, “set humidity ico” shows the time needed, and it will be set after 3 seconds. The unit will stop working on the set time with the “shut off timing ico” off. Add 2 hours by press the “timer button” each time and it should be range from 0 to 14 hours. Set 0 hour to cancel timing.

(2) Set time to start on. Press the “timer button” to set the start on time when it is not working. Press the button with the “start on timing ico” lights on, “set humidity ico” shows the time needed, and the “set humidity ico” light off after 3 seconds later. The unit will start working under previous mode automatically on the set time.

**6. ‘Set humidity ico’ can not display the environmental humidity or temperature, but set humidity.**

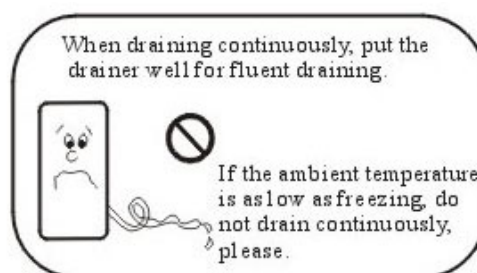
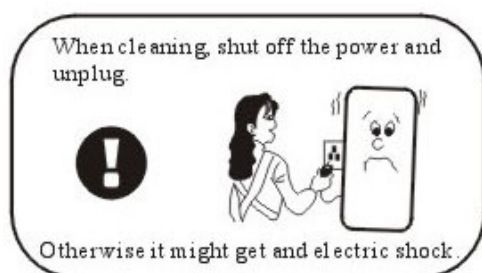
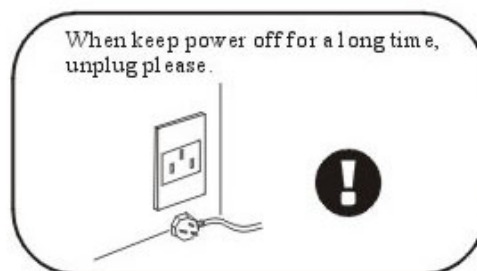
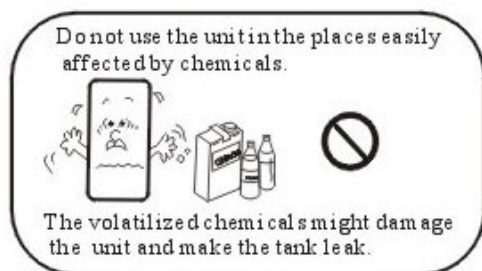
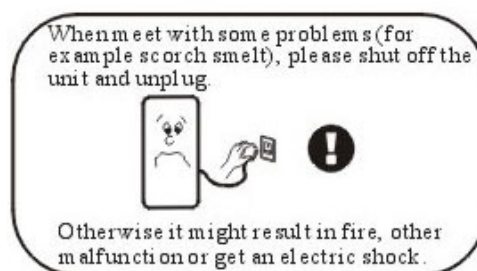
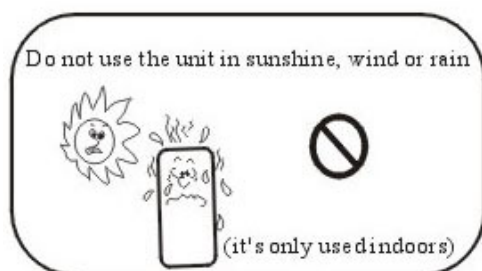
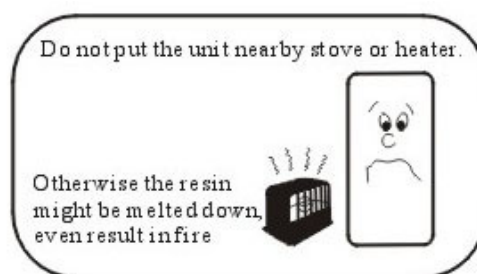
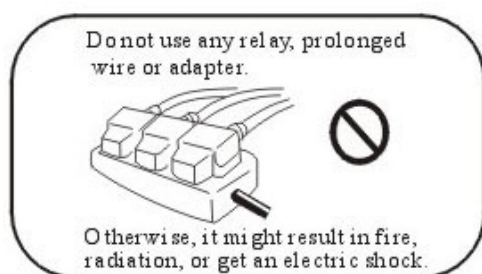
### Other functions introduction

1. This dehumidifier can keep a record of the current mode even when the power off, and the

unit will run under previous mode after power supplied again. Please make sure it is unplug before you leaving.

2. The computer controller has a protective function which can keeping for 3 minutes. The compressor cannot be restart in 3 minutes since it was been shut off last time, as it cannot be shut off in 3 minutes when it started work.
3. Working in comparative low temperature, defrost system will startup automatically, with the “defrost ico” lights on. A fan starts working and compressor stop. Since defrost finished, the “defrost ico” lights off, the fan and compressor restart up.
4. When the dehumidifier lacking of refrigeration, fan and compressor stop working automatically, humidity indicator on control panel displays “E1”, buzzer gives off a sound like “di” every 5 minutes.

#### 4. Maintenance and safety



Do not repair the unit privately, nor disconnect it.



Otherwise it might result in fire or get an electric shock.

Put the unit stably. If the unit turns over, the water will flow out from the tank and damage



something nearby. Moreover, it might result in fire or get an electric shock because of creepage.

Make the filter more durable.



When keep power off for a long time, seal the filter in a plastic bag.

Do not use the unit nearby water.



The unit might be in creepage when soaked by water, so as to result in fire or get an electric shock.

Use the standard electrical source of 220~240V.



Otherwise it might result in fire or get an electric shock.

Do not damage or exchange the wire.



Do not put anything heavy on the wire or heat or pull the wire. Otherwise it might result in fire or get an electric shock.

Clean the dirt on the plug and fix it tightly.



If the plug was not fixed tightly, it might get an electric shock.

Do not regard the plug as switch.



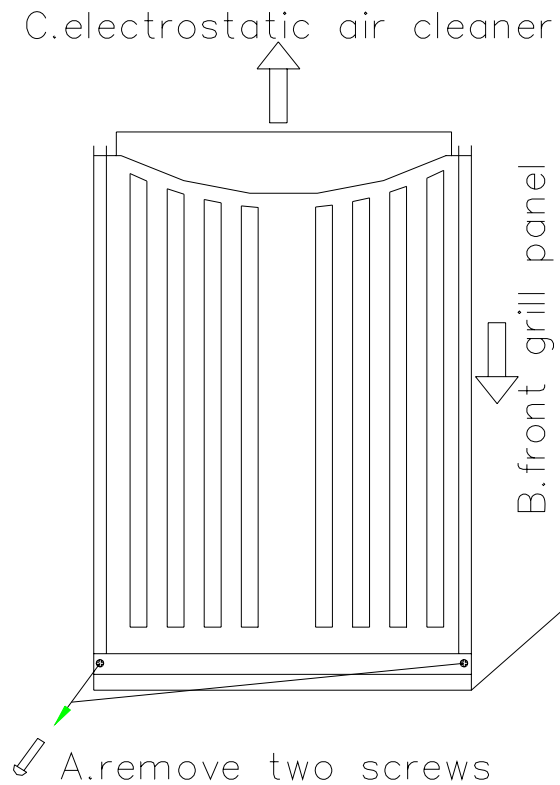
Otherwise it might result in fire or get an electric shock.

### 1. Air Filter---- unload and leaning

Air Filter is located at back of air-absorb grille and should be leaned at least two weeks interval.

#### Unload steps:

- A. Unload screws.
- B. Take off and pull out air-absorb grille by hand.
- C. Pull up the air filter
- D. Tap the air filter lightly or clean the dirt from it using a vacuum cleaner. if dirt is conspicuous, wash with a solution of detergent in lukewarm water. Dry well in the shade and replace the air filter.



#### Installation steps:

Please see above steps: from D to A.

### 5. Notice of operation

1. When displace the unit, do not slope over 45° to avoid any damaging of the compressor.
2. The unit should be operated between 5°C~32°C.
3. When dehumidifying, because of the heat resulted from the running compressor, the indoor temperature will rise 1°C~3°C. It's normal, and don't mind.
4. When indoor temperature is below 10°C, and the ambient absolute humidity is quite low, it is unnecessary to use the machine.
5. Air inlet and air outlet should be at least 10cm away from the wall.
6. Try to seal the room to enhance the dehumidification effect.



## 6. Support

Malfunctions	Analysis	Solution
Does not work	<ol style="list-style-type: none"> <li>1. Power cut</li> <li>2. Switch off</li> <li>3. Unplugged</li> <li>4. Fuse melted</li> </ol>	<ol style="list-style-type: none"> <li>1. Power on</li> <li>2. Switch on</li> <li>3. Plug on</li> <li>4. Exchange fuse</li> </ol>
Dehumidify in low efficiency	<ol style="list-style-type: none"> <li>1. Filter choked by dirt</li> <li>2. Some barrier in air inter or outlet</li> <li>3. Door or windows open</li> <li>4. Refrigerant leak</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean the filter</li> <li>2. Remove the barrier</li> <li>3. Close the door and windows and shadow the sunshine</li> <li>4. Contact the manufacturer or seller</li> </ol>
Water leak	<ol style="list-style-type: none"> <li>1. Unit instable</li> <li>2. Drainer choked</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the unit to be stable</li> <li>2. Pull out the panel and remove the barrier</li> </ol>
Special noise	<ol style="list-style-type: none"> <li>1. Unit instable</li> <li>2. Drainer choked</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the unit to be stable</li> <li>2. Pull out the panel and remove the barrier</li> </ol>

1. When above malfunctions occur and they could not be removed, contact the supplier or seller please, do not disassemble the machine privately.
2. When the unit starts or stops running, some noise of refrigerating circulation is not a malfunction.
3. Hot wind from the air outlet is normal.

## 7. Instruction of malfunction code

The unit analyze malfunction automatically and display code on the humidity window.

Malfunction display	Problem
E1	Short of refrigerant
E2	Temperature sensor
E3	Humidity sensor
E4	Tank full(only for AT120)
E5	Sensor of refrigeration pipeline

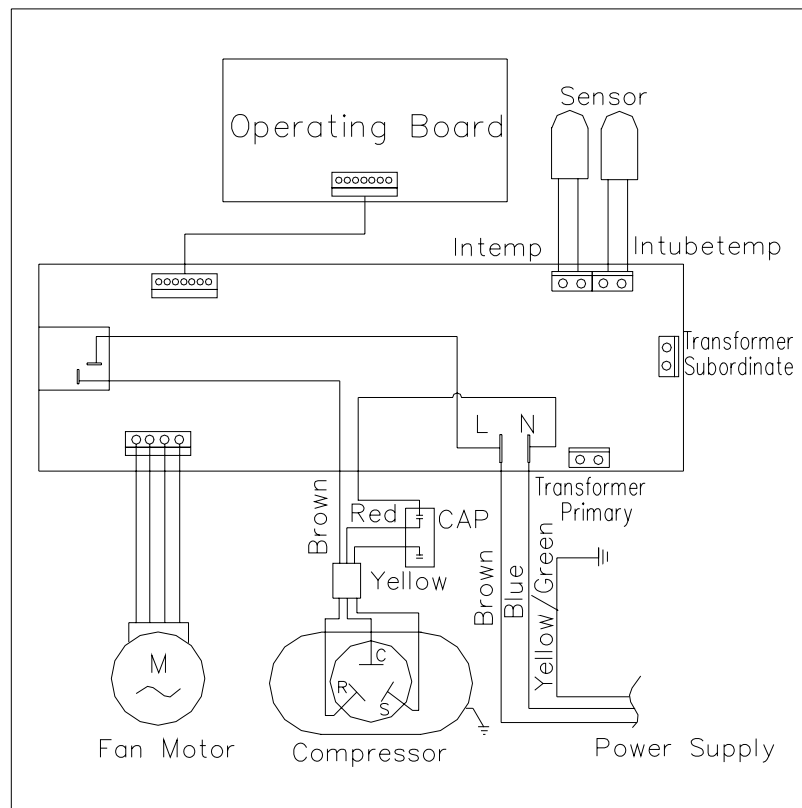
### Parameter list

Model	AT 90	AT 120
Electrical source	220-240V/1/50Hz	
Dehumidification	90L/day	120L/day
Rated power input	1320W	1500W
Rated power current	6.2A	7.0A
Weight	70kg	73kg
Size(mm)	480X266X1705	480X266X1705

Parameter test operating condition's =30℃RH=80%

Please be noticed that there are no special notifying for any variation of above parameters.

## 8. Electric Principle Chart



## 9. Installation Instruction

### Notice:

#### 1. Transport

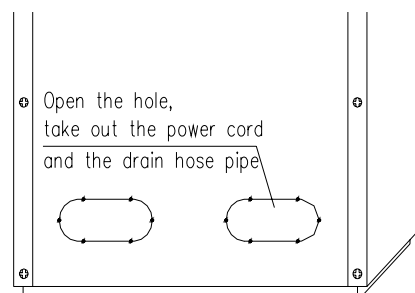
The appliance must stand upright .When moving should not decline over 45 degree.

#### 2. Installation

The appliance should be located on a steady and firm stand.

### Installation:

1. Place the dehumidifier on a smooth level floor.

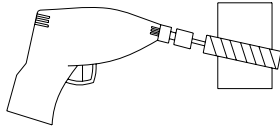


2. Drill a hole through the wall with a diameter of 65mm .Keep the hole is outward leaning

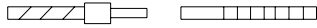
for the smooth flowing of freezing water.

**WARNING:**

Checked carefully before drilling .To make sure there is nothing like the wire and the pipe behind this position.



3. Connect the drain hose pipe .Look at the diagram



**Notice:**

Please to make sure there is no water with the joining between the drain hose pipes.

Any piece of the drain hose pipe should not be higher than the joining between the inflowing fence and the front board.

4. The wall sleeve of flange should be installed in the hole of indoor .The drain hose pipe should be educed to outdoor through the wall sleeve of flange.  
The outer pipe's length can't over 20mm.